### IAP15 Rec'd PCT/PTO 26 JUL 2006

PTO-1390 (Rev. 07-2005) Approved for use through 03/31/2007. OMB 0651-0021
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### TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

ATTORNEY'S DOCKET NUMBER JHUC-P01-021 DATE CLAIMED 28 January 2004

TION NO. ((Cknown, see 37 CFR 1.5) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE US05/002556 28 January 2005 TITLE OF INVENTION DRUGS AND GENE CARRIER PARTICLES THAT RAPIDLY MOVE THROUGH MUCOUS BARRIERS APPLICANT(S) FOR DO/EO/US Hanes et al. Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. x The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) Х is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. b. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. a. has been previously submitted under 35 U.S.C. 154(d)(4). Х Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. Х have not been made and will not be made. 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. x An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. x A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. 14. x 15. A substitute specification. 16. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825: 18. x A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 19.

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				INTERNATIONAL APPLI	ICATIO	N NO.		r'S DOCK	ET NUMBER
U.S. APPLICATION NO. 1505/002556  Other items or information: International Search Report from PCT/I IS 2005/00						JHUC-P01-021			
20. X Other items or information: International Search Report from PCT/US2005/002556 Return Receipt Postcard									
The follo	owina fe	es have	CALCUL	ATIONS	PTO USEONLY				
The following fees have been submitted 21. x Basic national fee (37 CFR 1.492(a))						\$300	\$	300.00	
22. x Examination fee (37 CFR 1.492(c))  If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)									)
All other situations \$200  23. X Search fee (37 CFR 1.492(b))  If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0  Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$100  International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB \$400  All other situations \$500							\$ 400.00		
			and 23 =				\$ 900.00		)
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.									
Total Sheets	Extra SI	heets		Number of each additional 50 or fraction thereof (round <b>up</b> to a whole number)					
75 - 100 =		/50 = x \$250.00				x \$250.00	\$		
Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).							\$	·	
CLAIMS NUM		BER FILED	BER FILED NUMBER EXTRA RATE						
Total clain	Total claims 2		3 - 20 = 8		×	50.00	400.00		0
Independent of				x				0.00	<del></del>
MULTIPLE DEP	LTIPLE DEPENDENT CLAIM(S) (if applical		) (if applicable)	e) + 360.00			360.00		
TOTAL OF ABOVE CALCULATIONS =						\$ 1,660.00			
X Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.						830.00			
SUBTOTAL =							\$	830.00	0
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).							\$		
TOTAL NATIONAL FEE							\$ 830.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +									
TOTAL FEES ENCLOSED =							\$ 830.00		830.00
							Amount t refunded		\$
						Amount to charged	to be	\$	

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a. A check in the amount of \$ to cov	ver the AP20 Rec'd PCT/PTO 2 6 JUL 2006
b. X Please charge my Deposit Account No. 18-1945 A duplicate copy of this sheet is enclosed.	
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d. Fees are to be charged to a credit card. WARNING: Information should not be included on this form. Provide credit care.	rmation on this form may become public. Credit card information rd information and authorization on PTO-2038
NOTE: Where an appropriate time limit under 37 CFR 1.495 ha filed an granted to restore the International Application to pen	s not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be ding status.
	4583
SEND ALL CORRESPONDENCE TO:	SIGNATURE
Matthew P. Vincent FISH & NEAVE IP GROUP, ROPES & GRAY LLP	
One International Place	David P. Halstead, Ph.D.
Boston, Massachusetts 02110-2624 (617) 951-7739	NAME
CUSTOMER NUMBER: 28120	
COSTOMER NUMBER: 20120	44,735 REGISTRATION NUMBER

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Application No. (if known): Not Yet Assigned

Attorney Docket No.: JHUC-P01-021

#### **Certificate of Express Mailing Under 37 CFR 1.10**

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. EV521707929US in an envelope addressed to:

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Transmittal Letter to the United States Designated-Elected Office (3 pages) Preliminary Amendment (4 pages)

2nd copy of publ. Intern'l Appl. Includ. cover page and Figures 1-15 (76 pages)

Application Data Sheet (4 pages)
IDS and PTO Form SB/08 (3 pages)

Copy of International Search Report from PCT/US2005/002556 (6 pages)

Cited References (CA-CG) (7)

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